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P.004

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 Group: 4182

Amendments to the Specification

On Page 7 of the Specification, please amend Table 3 as follows:

Table 3: Example waxes and comparative products from ethylenediamine and monocarboxylic acid mixtures

Example	1	2	3	4	5	6	7	8
Ethylenediamine	1	1	1	1	1	1	1	
Stearic acid 98-100				2				
Tallow fatty acid 80/20		2						
Tallow fatty acid 70/30	2		2					
Palmitic acid 98-100					2			
Tallow fatty acid 65/35						1		
Tallow fatty acid 60/40							2	
Tallow fatty acid 55/45								2
Acid No.	5	5	5	10	9	3	8	9
Alkali No.	5	5	5	5	5	105	7	5
Dmp	144	144	144	144	146	126	144	144
Freeß value	-10 to -13	-10 to -11	-6 to -8	-15 to -17	-14 to -16	-17 to -20 [[-]]	-15 to -18	-15 to -18

Beginning on Page 7 and carrying over to Page 8 of the Specification, please amend Table 4 as follows:

Table 4: Example waxes from ethylenediamine and monocarboxylic acid mixtures with addition of aliphatic diamines

Example	9	10	11	12	13	14	15	16
Ethylenediamine	1	1	1	1	1	1	1	1
Hexamethylenediamine		0.03	0.03			0.03		
TCD-diamine				0.03	0.03		0.02	
Tallow fatty acid 80/20						2.06		
Tallow fatty acid 70/30				2.03				
Tallow fatty acid 60/40		1.96						
Tallow fatty acid 55/45	1.87		2.03		1.96			
Tallow fatty acid 50/50							2.02	
Oleic acid	0.17	0.09			0.09			

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12-Hydroxystearic acid								2
Acid number	10	9	7	8	11	15	5	8
Alkali number	4	5	2	4	6	9	5	12
Drop melting point	136	138	139	138	136	138	142	140
Freeß value	-14 -16 -14 to -16	-15 -17 -15 to -17	-14 -18 -14 to -16	-15 -18 -15 to -18	-15 -17 -15 to -17	-13 -18 -13 to -18	-15 -18 -15 to -18	-14 -16 -14 to -16

On Page 8, carrying over to Page 9 of the Specification, please amend Table 5 as follows:

Table 5: Example waxes from ethylenediamine and monocarboxylic acid mixtures with addition of aliphatic diamines and/or aliphatic dicarboxylic acids

Example	17	18	19	20	21	22	23
Ethylenediamine	1	1	1	1		1	
Hexamethylenediamine			0.04	0.05	1		1
TCD-diamine							
Tallow fatty acid 80/20							
Tallow fatty acid 70/30				2			
Tallow fatty acid 65/35					1.82	1.82	1.82
Tallow fatty acid 60/40							
Tallow fatty acid 55/45	1.87	1.83	2.03				
Tallow fatty acid 45/50							
Oleic acid							
Hydroxystearic acid							
Dimeric fatty acid 10:25		0.08	0.05				
Adipic acid	0.07			0.05			
Sebacic acid					0.09	0.09	
Dodecanedioic acid							0.09
Acid number	10	10	12	8	8	15	6
Alkali number	4	5	5	2	1	3	2
Drop melting point	151	138	136	159	149	180	148
Freeß value	-10 -13 -10 to -13	-17 -20 -17 to -20	-16 -20 -16 to -20	-16 -19 -16 to -19	-12 -14 -12 to -14	-11 -14 -11 to -14	-11 -13 -11 to -13

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On Page 9 of the Specification, please amend Table 6a as follows:

Table 6a: Properties of bitumen blends with 3% of modifier from Table 3

Comparative wax			from Examp le No. 7	from Example No. 4	from Example No. 5	from Examp le No. 21	from Examp le No. 22	from Examp le No. 23
		B30	Inventi on	Compariso n*	Compariso n*	Clariant	FACI	Clariant
Tallow fatty acid composition		alone	60/40	80/20	2/98	70/30	65/35	70/30*
Viscosity mPas	Method a	100	40	60	45	55	55	50
	Method b	80	50	60	50	50	60	50
Softening point		52	100	95	95	85	87	85
Ring/ball °C								
Needle penetration in 1/10 mm		75	42	39	41	45	43	48
Fraas breaking point °C**	c	-17	-14	-15	-13	-11	-10	-8
		-19	-15	-15 to	-13 to -15	-11 to	-10 to	-8 to -8
		-17 to -19	-14 to -15	-17		-13	-11	

On Page 10 of the Specification, please amend Table 6b as follows:

Table 6b: Properties of bitumen blends with 3% of modifier from Table 4

Wax from example		9	10	13	15	16
		Inventio n	Inventio n	Inventio n	Inventio n	Inventio n
Viscosity mPas	a	60	55	60	60	50
	b	60	65	60	60	60
Softening point ring/ball		99	100	98	97	88
Needle penetration in 1/10 mm		51	47	49	46	46
Fraas breaking point °C	c	-14	-15	-15	-15	-14
		-14 to	-15 to	-15 to	-15 to	-14 to
		-16	-17	-17	-18	-16

On Page 10 of the Specification, please amend Table 6c as follows:

Table 6c: Properties of bitumen blends with 3% of modifier from Table 5

Wax from example		18	21	19	20	22	23
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		Inventi on	Inventi on	Inventi on	Inventi on	Inventi on	Invention
Viscosity mPas	a	50	70	40	40	50	40
	b	50	65	50	50	60	50
Softening point ring/ball °C		98	97	102	97	100	99
Needle penetration in 1/10 mm		42	40	52	43	38	41
Fraaß breaking point °C		-17	-12	-16	-16	-11	-11, -14
		20	14	20	18	43	-11 to -14
		-17 to	-12 to	-16 to	-16 to	-11 to	
		-20	-14	-20	-19	-19	